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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/406,844	09/29/1999	IN TAE HWANG	CIT/K-091	1994
34610 75	590 08/27/2003			
FLESHNER & KIM, LLP			EXAMINER	
P.O. BOX 221200 CHANTILLY, VA 20153			TRAN, PABLO N	
			ART UNIT	PAPER NUMBER
			2685	8
			DATE MAILED: 08/27/2003	_

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
•		09/406,844	HWANG ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Pablo N Tran	2685		
Period fo	The MAILING DATE of this communic or Reply	cation appears on the cover sho	eet with the correspondence address		
THE I - Externanter - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOMAILING DATE OF THIS COMMUNIC asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) period for reply is specified above, the maximum state to reply within the set or extended period for reply well received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no event, however, nication. days, a reply within the statutory minimum utory period will apply and will expire SIX (it ill, by statute, cause the application to bec	may a reply be timely filed n of thirty (30) days will be considered timely. 6) MONTHS from the mailing date of this communication. ome ABANDONED (35 U.S.C. § 133).		
1)	Responsive to communication(s) file	d on			
2a) <u></u> □	This action is FINAL . 2	b) This action is non-final.			
3)□ Dispositi	Since this application is in condition closed in accordance with the praction of Claims	for allowance except for forma ce under <i>Ex parte Quayle</i> , 193	al matters, prosecution as to the merits is 35 C.D. 11, 453 O.G. 213.		
4) 🖂	Claim(s) 1-44 is/are pending in the a	pplication.			
	4a) Of the above claim(s) is/are	withdrawn from consideration	n.		
5)	Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>1-44</u> is/are rejected.				
7)	Claim(s) is/are objected to.				
8)	Claim(s) are subject to restrict	ion and/or election requiremer	nt.		
	on Papers	•			
9) 🗌 🤈	The specification is objected to by the	Examiner.			
10) 🔲	The drawing(s) filed on is/are: a	a) accepted or b) objected to	o by the Examiner.		
	Applicant may not request that any obje	ction to the drawing(s) be held in	abeyance. See 37 CFR 1.85(a).		
11) 🔲 🤄	The proposed drawing correction filed	on is: a) approved b) disapproved by the Examiner.		
	If approved, corrected drawings are requ	uired in reply to this Office action.			
12)	The oath or declaration is objected to l	by the Examiner.			
Priority ι	ınder 35 U.S.C. §§ 119 and 120		,		
13)	Acknowledgment is made of a claim f	or foreign priority under 35 U.	S.C. § 119(a)-(d) or (f).		
a)[☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority d	ocuments have been received	d.		
	2. Certified copies of the priority documents have been received in Application No				
* S	3. Copies of the certified copies o application from the Internation attached detailed Office action	itional Bureau (PCT Rule 17.2	(a)).		
			S.C. § 119(e) (to a provisional application).		
a 15)□ <i>A</i>) The translation of the foreign lang Acknowledgment is made of a claim fo	juage provisional application h	nas been received.		
Attachmen					
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449) Pap	O-948) 5) Not	rview Summary (PTO-413) Paper No(s) ice of Informal Patent Application (PTO-152) er:		
S. Patent and Ti PTO-326 (Re		Office Action Summary	Part of Paper No. 8		

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 04/15/03 have been fully considered but they are not persuasive.

The Applicant's stated that "based on the foreign priority date of the present application, Widegren et al. do not qualify as prior art". In response to the Applicant, the present application claimed priority to Korean Patent Application No. 41481/1998, filed 10/01/98, do not precede the claimed priority to Provisional Application of Widegren et al., which was filed 04/03/98. Therefore, Widegren et al. qualify as prior art.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 26 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 26, limitation "dedicated control channel" should be dedicated traffic channel. Appropriated correction is required.

Claim Rejections - 35 USC § 102

Art Unit: 2685

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

5. Claims 1-4, 13-22, 25, 34, 37, and 40-44 are rejected under 35 U.S.C. 102(e) as being anticipated by *Widegren et al.* (6,374,112).

As per claims 1, 13-14, 41-44, *Widegren et al.* disclosed a method for performing data communication between a mobile station MS (see fig. 1/no. 30) and a network (fig. 1) which have media access control MAC sub layers (fig. 7), respectively, a method for branching data in a mobile communication terminal, comprising the steps of allowing each of said MAC sub layers of said MS and network to attach logical channel type based on traffic characteristics info. and a radio bearers status to a MAC header contained in data to be sent in a data sending mode, to branch said data to be sent to transport channels corresponding to the attached logical channels, to determine logical channels corresponding logical types of a MAC header contained in received data in a data receiving mode to branch said received data to said determined logical channels

Art Unit: 2685

(fig. 4-6, fig. 9, col. 2/ln. 49-col. 4/ln. 49, col. 9/ln. 5-col. 13/ln. 42, col. 15/ln. 39-col. 16/ln. 41).

As per claims 2 and 15, *Widegren et al.* disclosed said MAC sub layers to perform a channel mapping operation in a one-to-one, many-to-one, or one-to-many manner to branch said data to be sent or said received data (see col. 9/ln. 50-63).

As per claims 3-4 and 16-17, *Widegren et al.* disclosed said traffic characteristic info includes traffic characteristic identifiers transferred from a radio source control layer and other upper layer. Such traffic characteristic identifiers represent any one of random access data, synch. data, system data, paging info/forward access grant info, short message service data, no radio bearer short packet data, signaling data, radio bearer short/long packet data, multicast signaling data, or multicast data and speech (see col. 7/ln. 54-col. 8/ln. 13, col. 10/ln. 15-21, col. 10/ln. 64-col. 12/ln. 11).

As per claims 18 and 40, *Widegren et al.* disclosed a method of mapping between logical and transport channels, wherein the logical channels comprise at least one of a dedicated control channel or a dedicated traffic channel and the transport channels comprise at least one of a forward access channel, a random access channel, a downlink shared channel, or a dedicated channel (fig. 4-6, fig. 9, col. 2/ln. 49-col. 4/ln. 49, col. 9/ln. 5-col. 13/ln. 42, col. 15/ln. 39-col. 16/ln. 41).

As per claims 19-20, *Widegren et al.* disclosed said mapping is a function of medium access control MAC (fig. 7).

Art Unit: 2685

As per claim 21, *Widegren et al.* disclosed the MAC is a sub-layer that performs a branching operation suitable to a service characteristic in order to appropriately process a variety of services (fig. 7, col. 13/ln. 44-60).

As per claim 22, *Widegren et al.* disclosed said mapping is between the dedicated control channel and one of the transport channels (fig. 4-6, fig. 9, col. 2/ln. 49-col. 4/ln. 49, col. 9/ln. 5-col. 13/ln. 42, col. 15/ln. 39-col. 16/ln. 41).

As per claim 25, *Widegren et al.* disclosed said mapping is between the dedicated traffic channel and one of the transport channels (fig. 4-6, fig. 9, col. 2/ln. 49-col. 4/ln. 49, col. 9/ln. 5-col. 13/ln. 42, col. 15/ln. 39-col. 16/ln. 41).

As per claim 34, *Widegren et al.* disclosed said mapping is between one of logical and downlink shared channels (fig. 4-6, fig. 9, col. 2/ln. 49-col. 4/ln. 49, col. 9/ln. 5-col. 13/ln. 42, col. 15/ln. 39-col. 16/ln. 41).

As per claim 37, *Widegren et al.* disclosed said mapping is between the logic and dedicated channels (fig. 4-6, fig. 9, col. 2/ln. 49-col. 4/ln. 49, col. 9/ln. 5-col. 13/ln. 42, col. 15/ln. 39-col. 16/ln. 41).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 2685

7. Claims 5-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Widegren et al.* (6,374,112).

As per claims 5-12, *Widegren et al.* disclose such specific way of channels mapping operation (see fig. 7-9, col. 9/ln. 50-63, col. 13/ln. 43-col. 16/ln. 29) but do not explicitly disclosed other adapted way of channel mapping operations as cited in claims 5-12. However, it is obvious that any other way of channel mapping operations can be used as long as it provide channels mapping operations and multiplexing/demultiplexing between logical and transport channels according to traffic characteristics to branch data. Therefore, it would have been obvious to one of ordinary skill in the art to utilize such channel mapping operations, as stated above, to the channels mapping operations of *Widegren et al.* in order to flexibility providing a wide variety of mobile communications services and efficiently allocating resources to support those services.

8. Claims 23-24, 26-27, and 35-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Widegren et al.* (6,374,112) in view of *Manning et al.* (6,519,266).

As per claims 23, 26, and 35, the modified system of *Widegren et al.* disclosed logical and transport channels but do not explicitly disclose such channel DCCH, DTCH, or DSCH. However, such channel of DCCH, DTCH, or DSCH is well known in the art, as disclosed in *Manning et al.* (col. 3/ln. 50-64, col. 7/ln. 32-56). Therefore, it would have been obvious to of ordinary skill in the art to provide such channel of DCCH, DTCH, or DSCH, as disclosed in *Manning et al.*, to the modified system of *Widegren et al.* to provide an efficient and selectively method of sizing of data blocks for wireless transport of data in a communication system.

Art Unit: 2685

As per claim 24, the modified system of *Widegren et al.* disclosed the DCCH is for transferring dedicated signal control information in duplex through a downlink and uplink (see *Widegren et al.*, col.11/ln. 31-41, see *Manning et al.*, col. 3/ln. 24-30).

As per claim 27, the modified system of *Widegren et al.* disclosed the DTCH is for transferring dedicated user long/short packet data in duplex through a downlink and uplink (see *Widegren et al.*, col. 4/ln. 12-32, see *Manning et al.*, fig. 3, col. 6/ln. 16-col. 7/ln. 2).

As per claim 36, the modified system of *Widegren et al.* disclosed the DSCH is for multi-casting user data in simplex through a downlink (see *Widegren et al.*, col.11/ln. 31-41, see *Manning et al.*, col. 6/ln. 35-41).

9. Claims 28-33 and 38-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Widegren et al.* (6,374,112) in view of Wallentin et al. (6,347,091).

As per claims 28 and 31, the modified systems of Widegren et al. do not explicitly disclose mapping of logical and forward/random access channels. However, such mapping channels, as stated above, are well known in the art, as disclosed in *Wallentin et al.* (col. 14/ln. 40-col. 13/ln. 33). Therefore, it would have been obvious to of ordinary skill in the art to provide such mapping of channels, as disclosed in *Wallentin et al.*, to the modified system of *Widegren et al.* to provide an efficient and selectively method of sizing of data blocks for wireless transport of data in a communication system.

As per claims 29, 32, and 38, the modified system of *Widegren et al.* disclosed logical and transport channels but do not explicitly disclose such channel FACH, RACD, or DCH. However, such channel of FACH, RACH, or DCH is well known in the art, as

Art Unit: 2685

disclosed in *Wallentin et al.* (col. 10/ln. 61-67). Therefore, it would have been obvious to of ordinary skill in the art to provide such channel of FACH, RACH, or DCH, as disclosed in *Wallentin et al.*, to the modified system of *Widegren et al.* to provide an efficient and selectively method of sizing of data blocks for wireless transport of data in a communication system.

As per claim 30, the modified system of *Widegren et al.* disclosed the FACH is for transferring forward access grant information and short packet data in simplex through a downlink (see *Wallentin et al.*, col. 10/ln. 48- col. 11/ln. 19).

As per claim 33, the modified system of *Widegren et al.* disclosed the RACH is for transferring random access grant information and short packet data in simplex through a downlink (see *Wallentin et al.*, col. 10/ln. 48- col. 11/ln. 19).

As per claim 39, the modified system of *Widegren et al.* disclosed the DCH is for transferring dedicated signal information and dedicated user data in duplex through a downlink and uplink (see *Wallentin et al.*, col. 10/ln. 48- col. 11/ln. 19).

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Cao et al. (6,292,471), Soininen et al. (6,434,130), Terry (2001/0043576), Chen et al. (2002/0090940), Muller (6,438,375), Lee et al. (6,490,453), Lee et al. (6,456,604), Kim et al. (6,438,119), and Beming et al. (6,236,646) disclose radiotelephone communication system.

Art Unit: 2685

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pablo Tran whose telephone number is (703)308-7941. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (703)305-4385.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

PABLO N. TRAN PATENT EXAMINER

August 8, 2003

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